10/672,572

STR-STRUCTURE SEARCH
4.12.04

=> d ibib abs hitstr 1-3

Inventors

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:755214 CAPLUS
DOCUMENT NUMBER: 137:263024
TITLE: Preparation of N-isoxazolyl biphenylsulfonamides and related compounds as dual angiotensin II and endothelin receptor antagonists.
INVENTOR(S): Murugesan, Natesan; Tellew, John E.; Macor, Jhon E.; Gu, Zhengxiang
PATENT ASSIGNEE(S): Bristol-Myers Squibb Co., USA
SOURCE: U.S. Pat. Appl. Publ., 206 pp., Cont.-in-part of U.S. Ser. No. 643,640, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002143024	A1	20021003	US 2000-737201	20001214
US 6638937	B2	20031028		

PRIORITY APPLN. INFO.:

US 1998-91847P	P	19980706
US 1999-345392	B2	19990701
US 1999-464037	B2	19991215
US 2000-481197	B2	20000111
US 2000-513779	A2	20000225
US 2000-604322	A2	20000626
US 2000-643640	B2	20000822

OTHER SOURCE(S): MARPAT 137:263024
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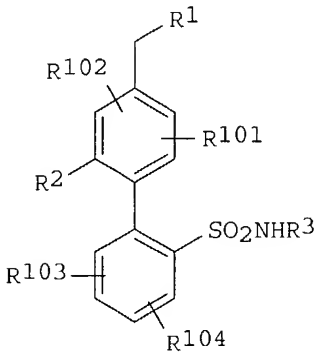


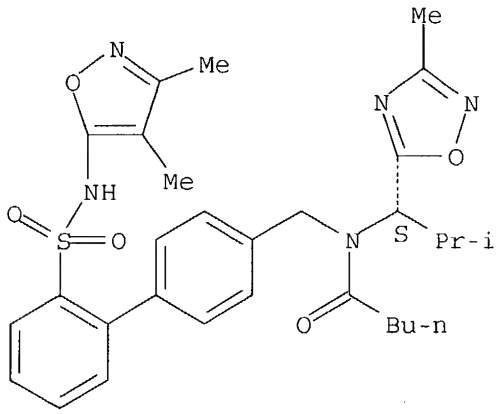
I

AB Title compds. (I; R1 = specified oxoimidazolyl, pyridoimidazolyl, pyridylamino, pyridyloxy, triazolyl, quinolinyloxy, etc.; R2 = H, halo, CHO, (halo)alkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, alkoxy, cyano, OH, NO2, etc.; R3 = heteroaryl; R101-R104 = H, halo, CHO, alkyl, haloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, haloalkoxyalkyl, alkoxy, alkoxyalkoxy, cyano, OH, hydroxyalkyl, NO2, etc; with provisos) were prepared as dual angiotensin II and endothelin receptor antagonists for treatment of hypertension and other diseases (no data). Thus, 4-BrC6H4CH2OH was coupled with [2-[[(4,5-dimethyl-3-isoxazolyl)[(2-methoxyethoxy)methyl]amino]sulfonyl]phenyl]boronic acid to give N-(4,5-dimethyl-3-isoxazolyl)-4'-(hydroxymethyl)-N-[(2-methoxyethoxy)methyl][1,1'-biphenyl]-2-sulfonamide (66%). This was

254742-88-6P, Pentanamide, N-[[2'-[[(4,5-dimethyl-3-isoxazolyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-[[[(tetrahydro-2-furanyl)methyl]amino]carbonyl]propyl]-
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

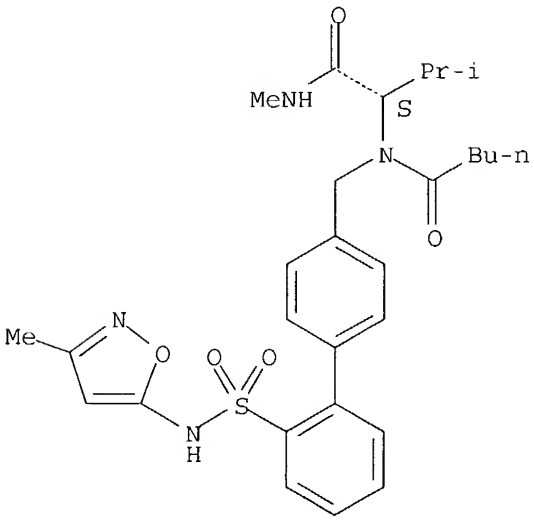
RN 254738-00-6 CAPLUS
CN Pentanamide, N-[[2'-[[(3,4-dimethyl-5-isoxazolyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-(3-methyl-1,2,4-oxadiazol-5-yl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

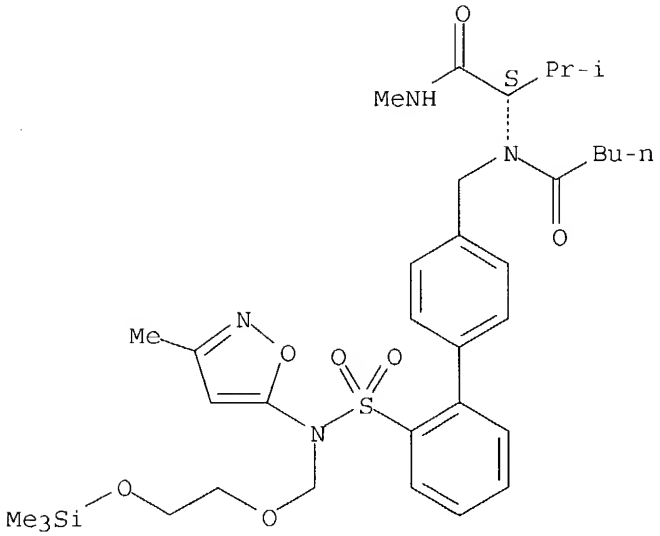


RN 254738-10-8 CAPLUS
CN Pentanamide, N-[[2'-[[(3-methyl-5-isoxazolyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-[(methylamino)carbonyl]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 254738-11-9 CAPLUS
CN Pentanamide, N-[[2'-[[(4-bromo-3-methyl-5-isoxazolyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-[(methylamino)carbonyl]propyl]-



L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:453059 CAPLUS
DOCUMENT NUMBER: 135:46172
TITLE: Preparation of N-isoxazolyl biphenylsulfonamides and related compounds as dual angiotensin II and endothelin receptor antagonists.
INVENTOR(S): Murugesan, Natesan; Tellew, John E.; Macor, John E.; Gu, Zhengxiang
PATENT ASSIGNEE(S): Bristol-Myers Squibb Co., USA
SOURCE: PCT Int. Appl., 287 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001044239	A2	20010621	WO 2000-US33730	20001213
WO 2001044239	A3	20011101		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1237888	A2	20020911	EP 2000-984282	20001213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003520785	T2	20030708	JP 2001-544729	20001213

PRIORITY APPLN. INFO.:
US 1999-464037 A 19991215
US 2000-481197 A 20000111
US 2000-513779 A 20000225
US 2000-604322 A 20000626
US 2000-643640 A 20000822
WO 2000-US33730 W 20001213

OTHER SOURCE(S): MARPAT 135:46172

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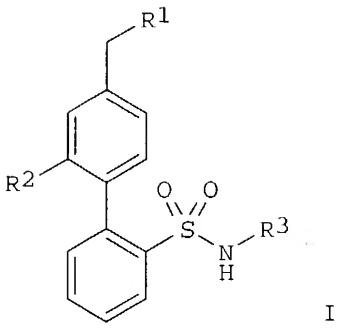

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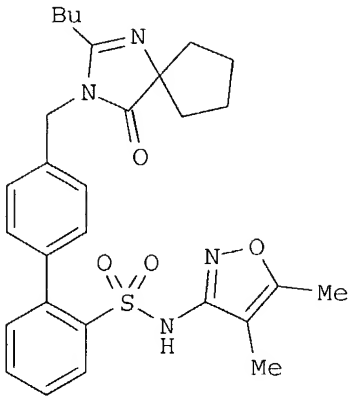

II

AB Title compds. (I; R1 = specified oxoimidazolyl, pyridoimidazolyl, pyridylamino, triazolyl, quinolinyloxy, etc.; R2 = H, halo, CHO, (halo)alkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, alkoxy, cyano, OH, NO2, etc.; R3 = heteroaryl; with provisos) were prepared as dual angiotensin II and endothelin receptor antagonists for treatment of hypertension and other diseases (no data). Thus, 4-BrC6H4CH2OH was coupled with [2-[[(4,5-dimethyl-3-isoxazolyl)[(2-methoxyethoxy)methyl]amino]sulfonyl]phenyl]boronic acid to give N-(4,5-dimethyl-3-isoxazolyl)-4'-(hydroxymethyl)-N-[(2-methoxyethoxy)methyl][1,1'-biphenyl]-2-sulfonamide (66%). This was brominated to give the 4'-bromomethyl derivative (90%), reacted with 2-butyl-1,3-diazaspiro[4.4]non-1-en-4-one hydrochloride, and deprotected (49% for two steps) to give II.

IT **254738-00-6P 254738-10-8P 254738-11-9P**
254738-85-7P 254738-86-8P 254738-89-1P
254738-90-4P 254738-91-5P 254739-03-2P
254739-09-8P 254739-10-1P 254739-11-2P
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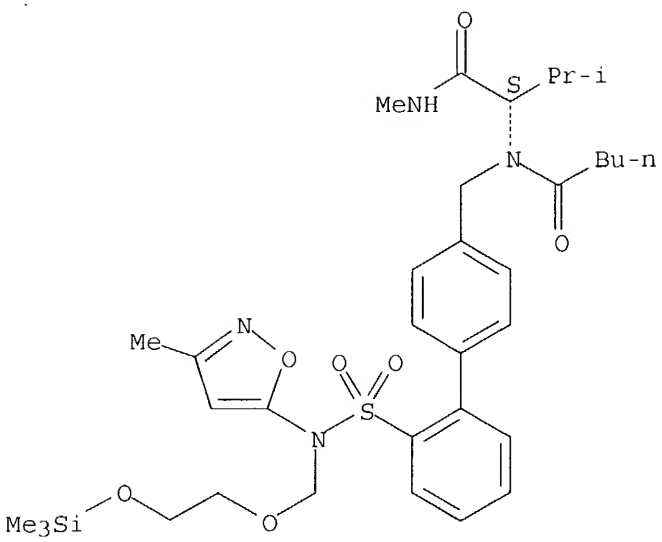

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:34745 CAPLUS
DOCUMENT NUMBER: 132:93309
TITLE: Preparation of N-isoxazolyl biphenylsulfonamides and related compounds as dual angiotensin II and endothelin receptor antagonists.
INVENTOR(S): Murugesan, Natesan; Tellew, John E.; Macor, John E.; Gu, Zhengxiang
PATENT ASSIGNEE(S): Bristol-Myers Squibb Co., USA
SOURCE: PCT Int. Appl., 283 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000001389	A1	20000113	WO 1999-US15063	19990701
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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AU 9950888	A1	20000124	AU 1999-50888	19990701
AU 767456	B2	20031113		
EP 1094816	A1	20010502	EP 1999-935406	19990701
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EE 200100006	A	20020617	EE 2001-6	19990701
JP 2002519380	T2	20020702	JP 2000-557835	19990701
NZ 508118	A	20030725	NZ 1999-508118	19990701
ZA 2000006772	A	20020220	ZA 2000-6772	20001120
LT 4854	B	20011126	LT 2000-123	20001222

NO 2001000062	A	20010305	NO 2001-62		20010105
BG 105205	A	20010928	BG 2001-105205		20010131
LV 12639	B	20010920	LV 2001-17		20010205
PRIORITY APPLN. INFO.:			US 1998-91847P	P	19980706
			WO 1999-US15063	W	19990701

OTHER SOURCE(S): MARPAT 132:93309

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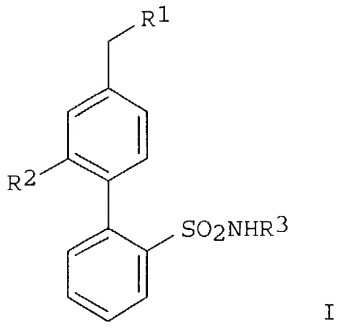

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AB Title compds. (I; R1 = specified oxoimidazolyl, pyridoimidazolyl, pyridylamino, triazolyl, quinolinyloxy, etc.; R2 = H, halo, CHO, alkyl, haloalkyl, cycloalkylalkyl, alkenyl, alkynyl, alkoxyalkyl, alkoxy, cyano, OH, NO2, etc.; R3 = heteroaryl; with provisos), were prepared as dual angiotensin II and endothelin receptor antagonists (no data). Thus, 4-BrC6H4CH2OH was coupled with [2-[[(4,5-dimethyl-3-isoxazolyl)[(2-methoxyethoxy)methyl]amino]sulfonyl]phenyl]boronic acid to give N-(4,5-dimethyl-3-isoxazolyl)-4'-(hydroxymethyl)-N-[(2-methoxyethoxy)methyl][1,1'-biphenyl]-2-sulfonamide. This was brominated to give 4'-bromomethyl-N-(4,5-dimethyl-3-isoxazolyl)-N-[(2-methoxyethoxy)methyl][1,1'-biphenyl]-2-sulfonamide, which reacted with 2-butyl-1,3-diazaspiro[4.4]non-1-en-4-one hydrochloride followed by deprotection to give 4'-[(2-butyl-4-oxo-1,3-diazaspiro[4.4]non-1-en-3-yl)methyl]-N-(4,5-dimethyl-3-isoxazolyl)[1,1'-biphenyl]-2-sulfonamide.

IT **254738-00-6P 254738-10-8P 254738-11-9P**
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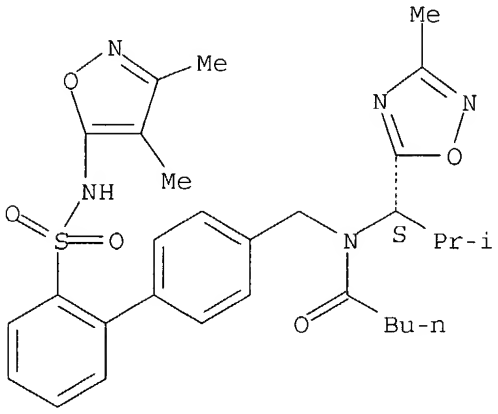
254742-87-5P 254742-88-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)

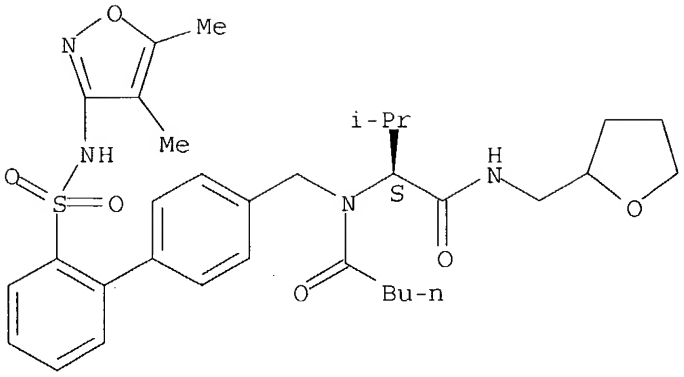
RN 254738-00-6 CAPLUS
CN Pentanamide, N-[[2'-[[(3,4-dimethyl-5-isoxazolyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-(3-methyl-1,2,4-oxadiazol-5-yl)propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



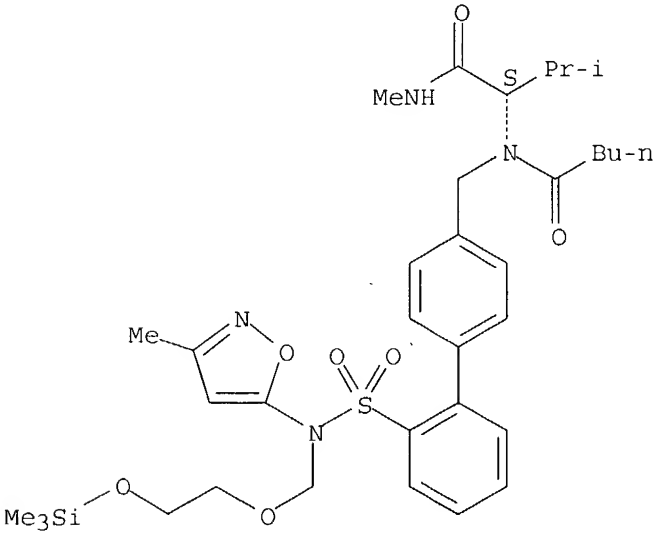
RN 254738-10-8 CAPLUS
CN Pentanamide, N-[[2'-[[(3-methyl-5-isoxazolyl)amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-[(methylamino)carbonyl]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **254745-28-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of N-isoxazolyl biphenylsulfonamides and related compds. as dual angiotensin II and endothelin receptor antagonists)
RN 254745-28-3 CAPLUS
CN Pentanamide, N-[[2'-[[(3-methyl-5-isoxazolyl)[[2-[(trimethylsilyl)oxy]ethoxy]methyl]amino]sulfonyl][1,1'-biphenyl]-4-yl]methyl]-N-[(1S)-2-methyl-1-[(methylamino)carbonyl]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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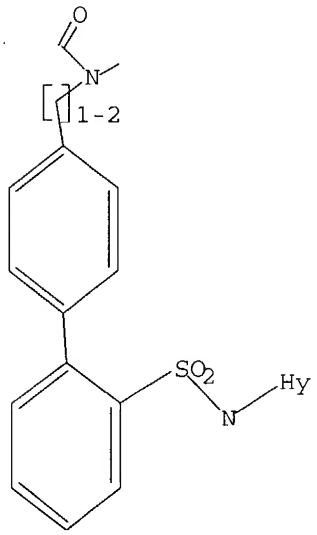
L1 STRUCTURE UPLOADED
L2 2 S L1
L3 99 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:18:06 ON 12 APR 2004
L4 3 S L3

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=>

PALM INTRANET

Day : Monday
Date: 4/12/2004
Time: 12:06:25

Inventor Name Search Result

Your Search was:

Last Name = MURUGESAN
First Name = NATESAN

Application#	Patent#	Status	Date Filed	Title
60523546	Not Issued	020	11/20/2003	HMG-COA REDUCTASE INHIBITORS AND METHOD
60489426	Not Issued	020	07/23/2003	DIHYDROPYRIMIDONE INHIBITORS OF CALCIUM (
60489365	Not Issued	020	07/23/2003	DIHYDROPYRIMIDONE INHIBITORS OF CALCIUM (
60423201	Not Issued	020	11/01/2002	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI ENDOTHELIN RECEPTOR ANTAGONISTS
60091847	Not Issued	159	07/06/1998	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS
60035832	Not Issued	159	01/30/1997	ENDOTHELIN ANTAGONISTS: N-[[2'-[[(4,5-DIMETHYL-3-ISOXAZOLYL)AMINO]SUI 'BIPHENYL]-2-YL]METHYL]-N,3,3-TRIMETHYLBUT/ N-(4,5-DIMETHYL-3-ISOXAZOLYL)-2'-[(3,3-DIMETH
60015072	Not Issued	159	04/09/1996	HETEROARYL SUBSTITUTED PHENYL ISOXAZOLE ANTAGONISTS
60013491	Not Issued	159	03/12/1996	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI
60007032	Not Issued	159	10/11/1995	SUBSTITUTED BIPHENYLSULFONAMIDE ENDOTHI
10672572	Not Issued	030	09/26/2003	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS
09737201	6638937	150	12/14/2000	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS
09643640	Not Issued	168	08/22/2000	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS
09552543	6673824	150	04/19/2000	PHENYL SULFONAMIDE ENDOTHELIN ANTAGONIS
09513779	Not Issued	168	02/25/2000	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS

09488506	6271248	150	01/20/2000	SUBSTITUTED BIPHENYSULFONAMIDE ENDOTHEI
09481197	Not Issued	168	01/11/2000	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS
09464037	Not Issued	168	12/15/1999	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS
09345392	Not Issued	168	07/01/1999	BIPHENYL SULFONAMIDES AS DUAL ANGIOTENSI ANTAGONISTS
09172349	Not Issued	161	10/14/1998	PRODRUGS OF LOBUCAVIR AND METHODS OF USI
09013952	6043265	150	01/27/1998	ENDOTHELIN ANTAGONISTS: N-[[2'-[[{4,5-DIMETH AMINO]SULFONYL]-4-{2-OXAZOLYL)[1,1'-BIPHENY TRIMETHYLBUTANAMIDE AND N-{4,5-DIMETHYL-3-ISOXAZOLYL}-2-[{3,3-DIMETH
08821503	5939446	150	03/21/1997	HETEROARYL SUSTITUTED PHENYL ISOXAZOLE S ANTAGONISTS
08810777	5846985	150	03/05/1997	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI
08799616	5846990	150	02/13/1997	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI
08762547	5827869	150	12/09/1996	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI
08754715	Not Issued	168	11/21/1996	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI
08728238	6080774	150	10/08/1996	SUBSTITUTED BIPHENYLSULFONAMIDE ENDOTHI
08692869	5780473	150	07/25/1996	SUBSTITUTED BIPHENYL SULFONAMIDE ENDOTH
08603975	Not Issued	166	02/20/1996	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI
08587076	Not Issued	168	01/16/1996	SUBSTITUTED BIPHENYL SULFONAMIDE ENDOTH
08584767	6107320	150	01/11/1996	PHENYL SULFONAMIDE ENDOTHELIN ANTAGONIS
08493331	Not Issued	168	07/24/1995	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI
08487358	5612359	150	06/07/1995	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI
08384066	5760038	150	02/06/1995	SUBSTITUTED BIPHENYL SULFONAMIDE ENDOTH
08368285	Not Issued	164	01/04/1995	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI
08297187	Not Issued	164	08/26/1994	SUBSTITUTED BIPHENYL ISOXAZOLE SULFONAMI

08146262	5514696	150	10/29/1993	PHENYL SULFONAMIDE ENDOTHELIN ANTAGONIS
08092166	5378715	150	07/15/1993	SULFONAMIDE ENDOTHELIN ANTAGONISTS
08041583	Not Issued	161	04/13/1993	PHENYL SULFONAMIDE ENDOTHELIN ANTAGONIS
08021410	Not Issued	161	02/23/1993	PHENYL SULFONAMIDE ENDOTHELIN ANTAGONIS
07998246	Not Issued	168	01/25/1993	SULFONAMIDE ENDOTHELIN ANTAGONISTS
07993562	5420123	150	12/21/1992	DIBENZODIAZEPINE ENDOTHELIN ANTAGONISTS
07879000	Not Issued	164	05/06/1992	PHENYL SULFONAMIDE ENDOTHELIN ANTAGONIS
07840496	Not Issued	161	02/24/1992	SULFONAMIDE ENDOTHELIN ANTAGONISTS
07665505	Not Issued	161	03/06/1991	HERBICIDAL DERIVATIVES OF NITROGEN-CONTAI ACETIC ACIDS
07540653	5149357	150	06/19/1990	HERBICIDAL SUBSTITUTED BENZOYLSULFONAMI
07482118	Not Issued	161	02/20/1990	DIMETHOXYPYRIMIDIN-2-YLOXY BENZOIC ACID I
07212856	4855480	150	06/29/1988	BENZYLAMINOOXYMETHYL METHYLPROPANOIC
07109804	4929751	150	10/19/1987	VINYL TRICARBONYL COMPOUNDS AND METHOD

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